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## WHAT IS CLAIMED IS:

1. A starting device for eliminating a peak current introduced when an inductive circuit is actuated, comprising:

a signal generator electrically connected to said inductive circuit and generating a first signal corresponding to a signal output by said inductive circuit;

a comparative circuit electrically connected to said signal generator for converting said first signal to a second signal to be compared with a reference signal to generate a control signal; and

- a controlling device electrically connected with said inductive circuit and said comparative circuit for receiving said control signal and gradually increasing a current flowing through said inductive circuit corresponding to said control signal, thereby eliminating said peak current introduced when said inductive circuit is actuated.
- 2. The starting device according to claim 1 wherein said inductive circuit is one of a motor and a direct-current (DC) motor.
  - 3. The starting device according to claim 2 wherein said signal generator is a frequency generator.
- 4. The starting device according to claim 3 wherein said first signal is a periodic square-wave signal.
  - 5. The starting device according to claim 4 wherein said periodic square-wave signal has a frequency proportional to a rotation speed of said motor.
- 6. The starting device according to claim 4 wherein said comparative circuit includes:

a signal converter electrically connected to said signal generator for converting said first signal to said second signal; and 5

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a comparator electrically connected to said signal converter and said controlling device for comparing said second signal with said reference signal to output said control signal.

- 7. The starting device according to claim 6 wherein said signal converter is a triangular wave generating circuit for converting said square-wave signal to one of a triangular wave signal and a sawtooth wave signal.
  - 8. The starting device according to claim 6 further comprising a charging circuit electrically connected between said comparator and a voltage source for supplying said inductive circuit with a required voltage, and providing said reference signal.
  - 9. The starting device according to claim 8 wherein said charging circuit is a resistance-capacitance circuit.
- 10. The starting device according to claim 2 wherein said control signal is a pulse width modulation (PWM) signal for controlling a rotation speed of said motor.
  - 11. The starting device according to claim 10 wherein said controlling device is an electronic switch for gradually increasing said current flowing through said inductive circuit corresponding to said PWM signal.
  - 12. The starting device according to claim 11 wherein said electronic switch is a transistor.
  - 13. The starting device according to claim 1 further comprising a driving circuit electrically connected between said inductive circuit and said signal generator for driving said inductive circuit.
  - 14. A starting method for eliminating a peak current introduced when an inductive circuit is actuated, comprising the steps of:

- (a) providing a first signal corresponding to a signal output by said inductive circuit;
- (b) converting said first signal to a second signal to be compared with a reference signal for generating a control signal; and
- (c) gradually increasing a current flowing through said inductive circuit corresponding to said control signal, thereby eliminating said peak current introduced when said inductive circuit is actuated.
- 15. The starting method according to claim 14 wherein said inductive circuit is one of a motor and a direct-current (DC) motor.
- 16. The starting method according to claim 15 wherein said first signal is a periodic square-wave signal.
  - 17. The starting method according to claim 16 wherein said periodic square-wave signal has a frequency proportional to a rotation speed of said motor.
- 18. The starting method according to claim 16 wherein said step (b) is performed by a triangular wave generating circuit to convert said square-wave signal to one of a triangular wave signal and a sawtooth wave signal.
  - 19. The starting method according to claim 15 wherein said control signal is a pulse width modulation (PWM) signal for controlling a rotation speed of said motor.
    - 20. The starting method according to claim 19 further comprising a step of repeating said steps (a) to (c) to gradually increase said rotation speed of said motor until said motor is rotated at a full speed.

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